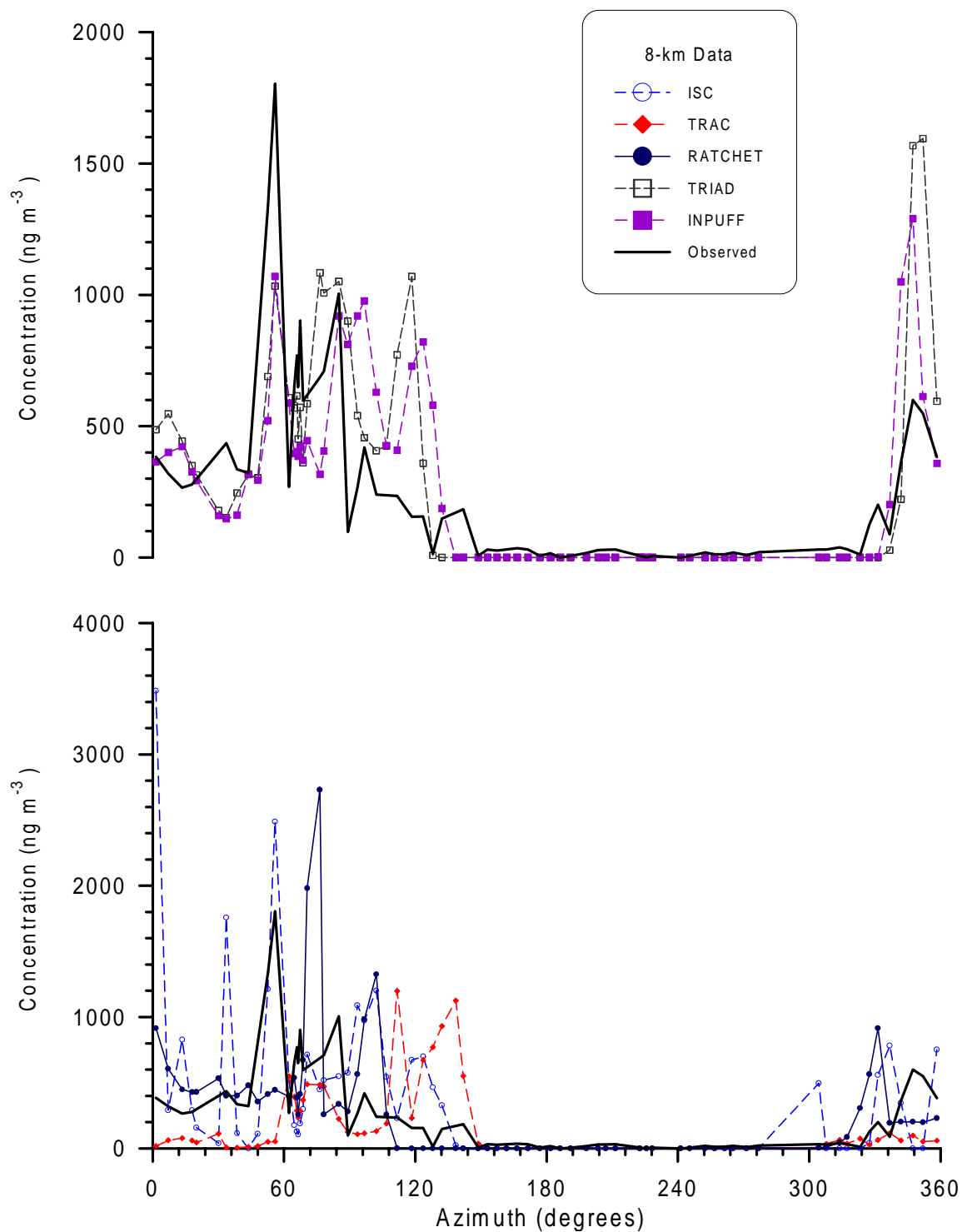


## **APPENDIX B**

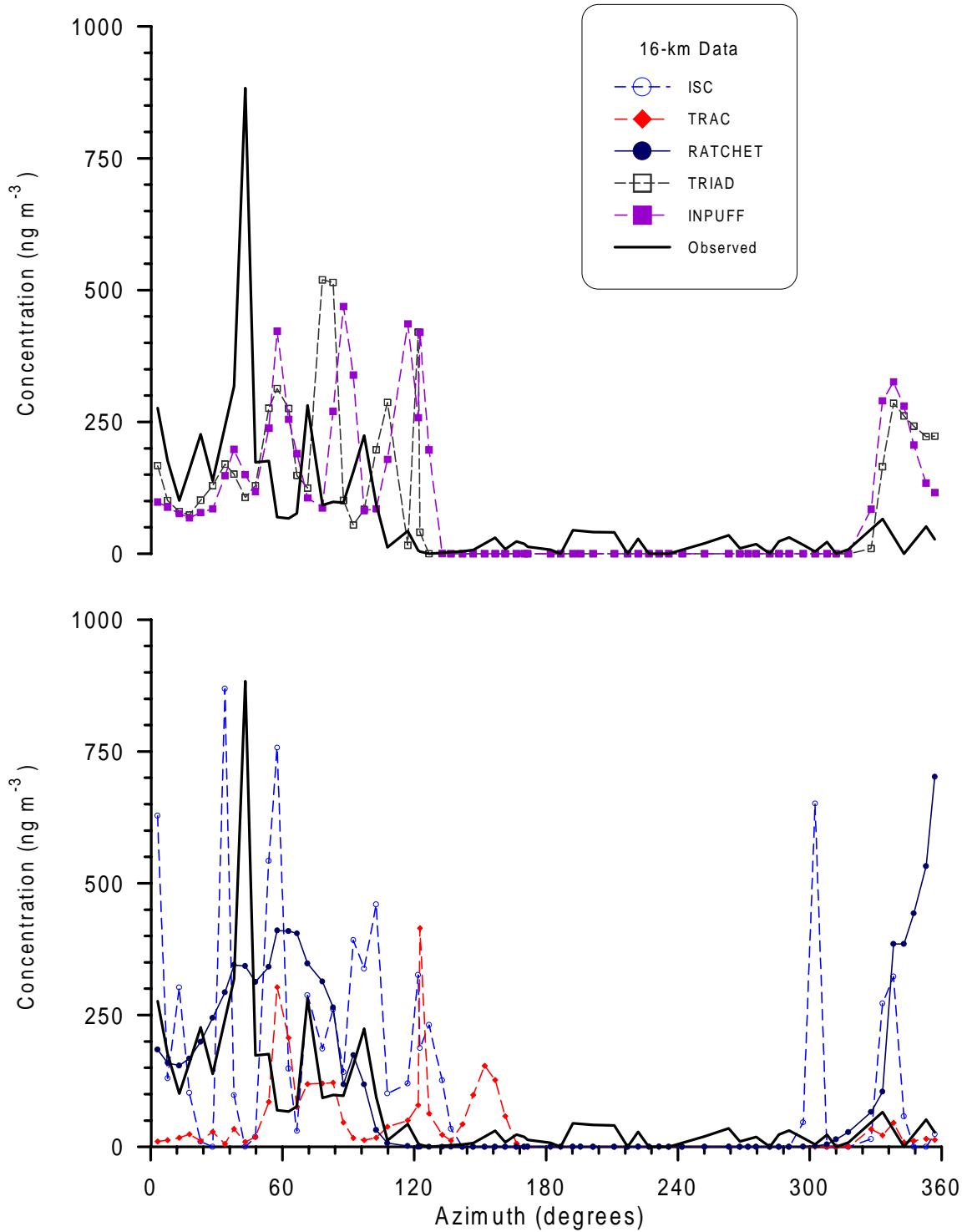
### **TIME-AVERAGED CONCENTRATION PLOTS**

#### **INTRODUCTION**

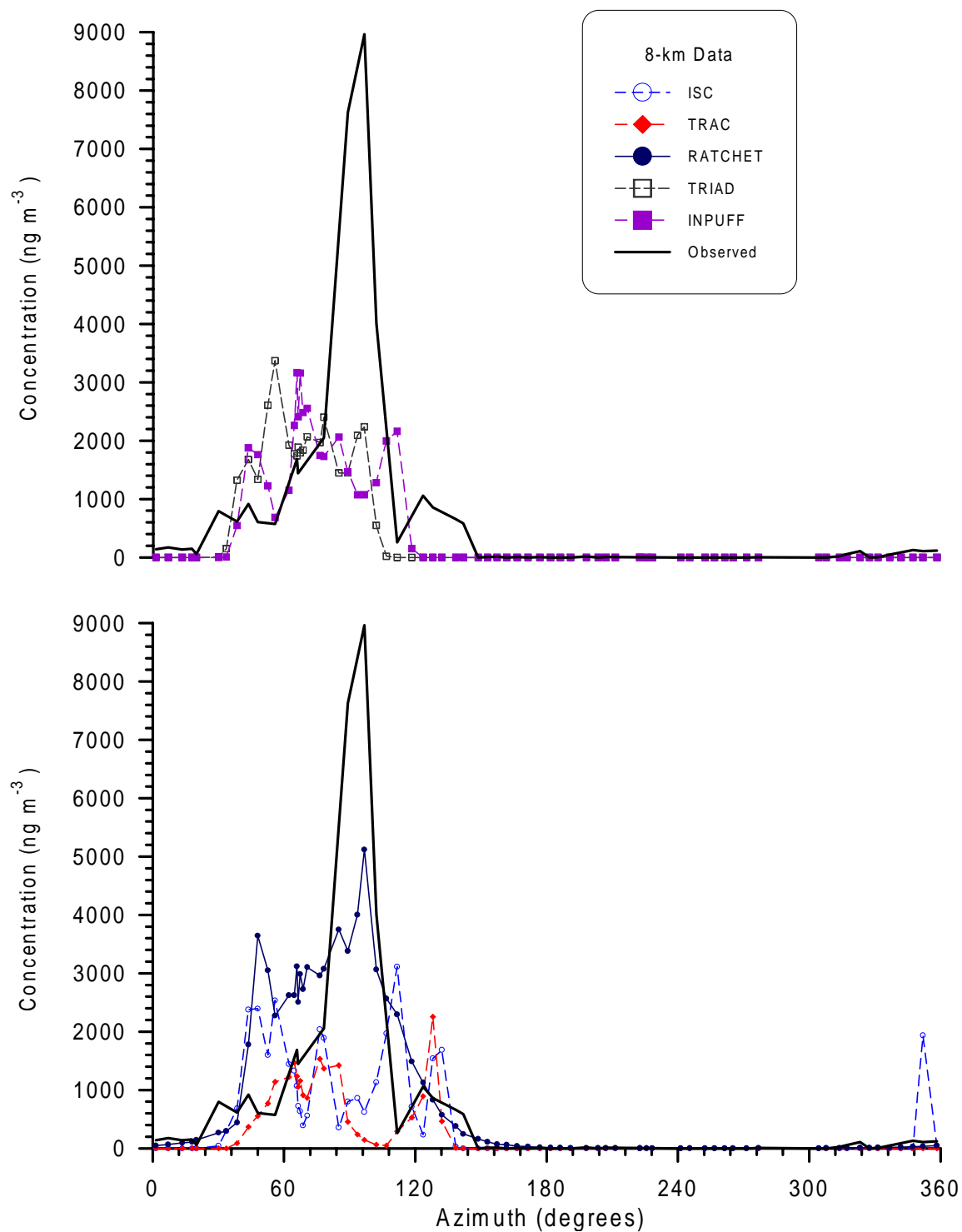
Time-averaged concentration versus azimuth for each test and each sampling arc (8-and 16-km) are plotted in Figures B-1 through B-24. Two plots are presented for each test and each sampling arc. The first plot contains the observed time-averaged concentration overlain by predicted concentrations generated by the ISC, TRAC, and RATCHET models. The second plot contains the observed time-averaged concentration overlain by predicted concentrations generated by the TRIAD and INPUFF2 models. For added clarity, it was necessary to reduce the number of models plotted per graph. The observed time-averaged concentrations are presented as bold solid lines in each graph. On the abscissa, the azimuth location is plotted. Concentration points represent the 9-hour average predicted or observed concentration at each of the samplers as illustrated in Figure 2 in the main body of the text.



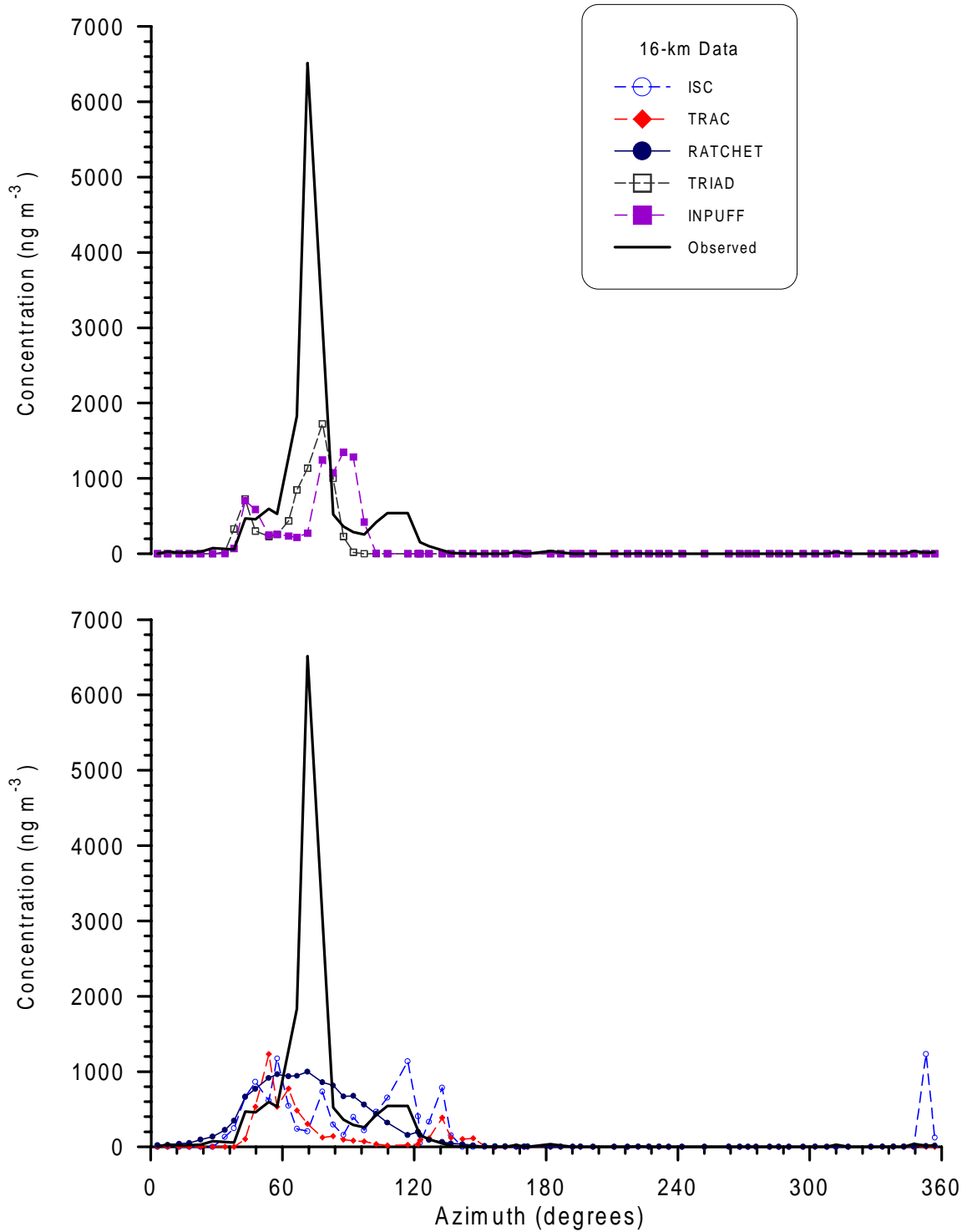
**Figure B-1.** Time averaged concentration for Test 1 conducted under nighttime conditions at the 8-km arc, 02/03/91 20:00:00 – 02/04/91 07:00:00, mountain standard time.



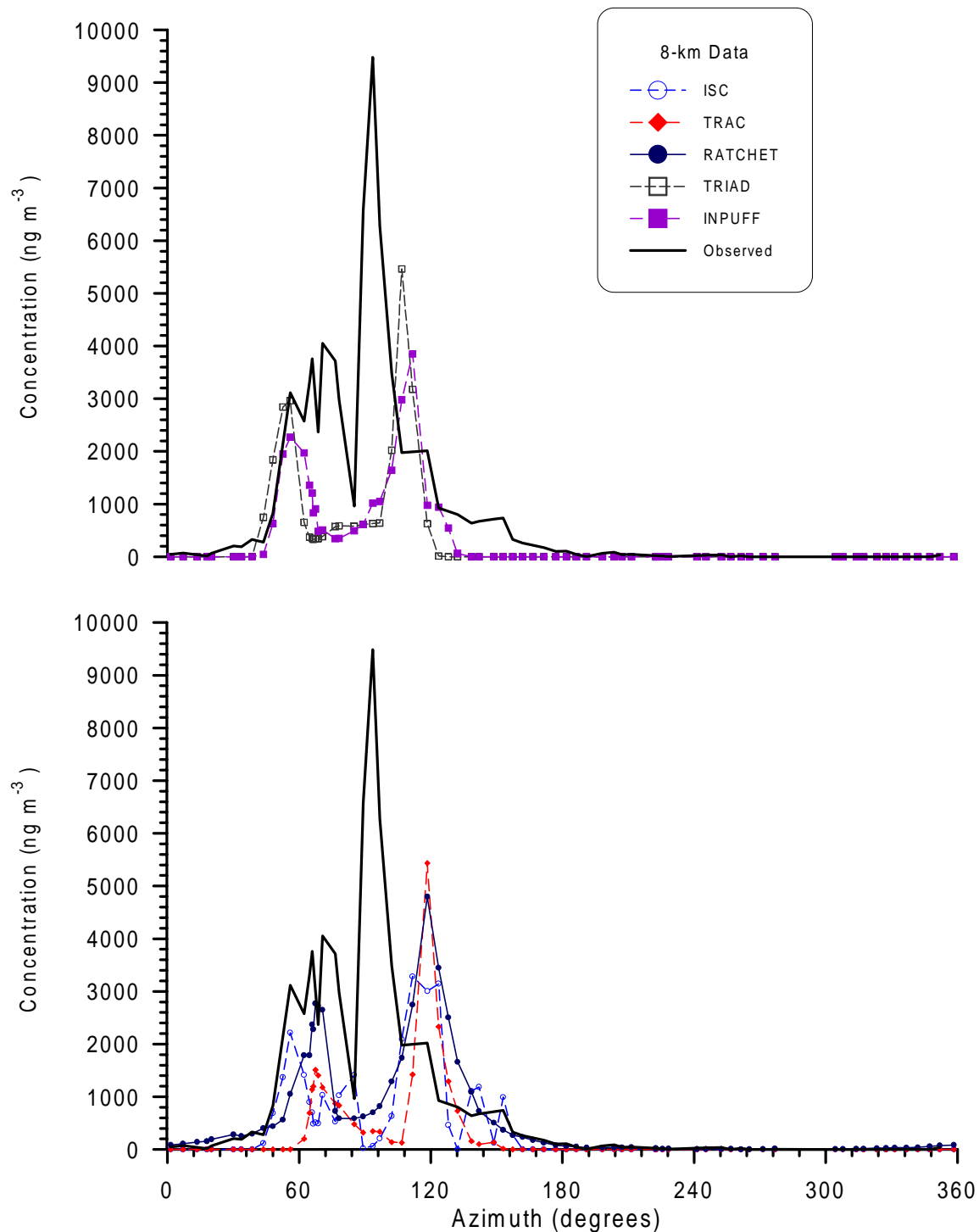
**Figure B-2.** Time averaged concentration for Test 1 conducted under nighttime conditions at the 16-km arc, 02/03/91 20:00:00 – 02/04/91 07:00:00, mountain standard time.



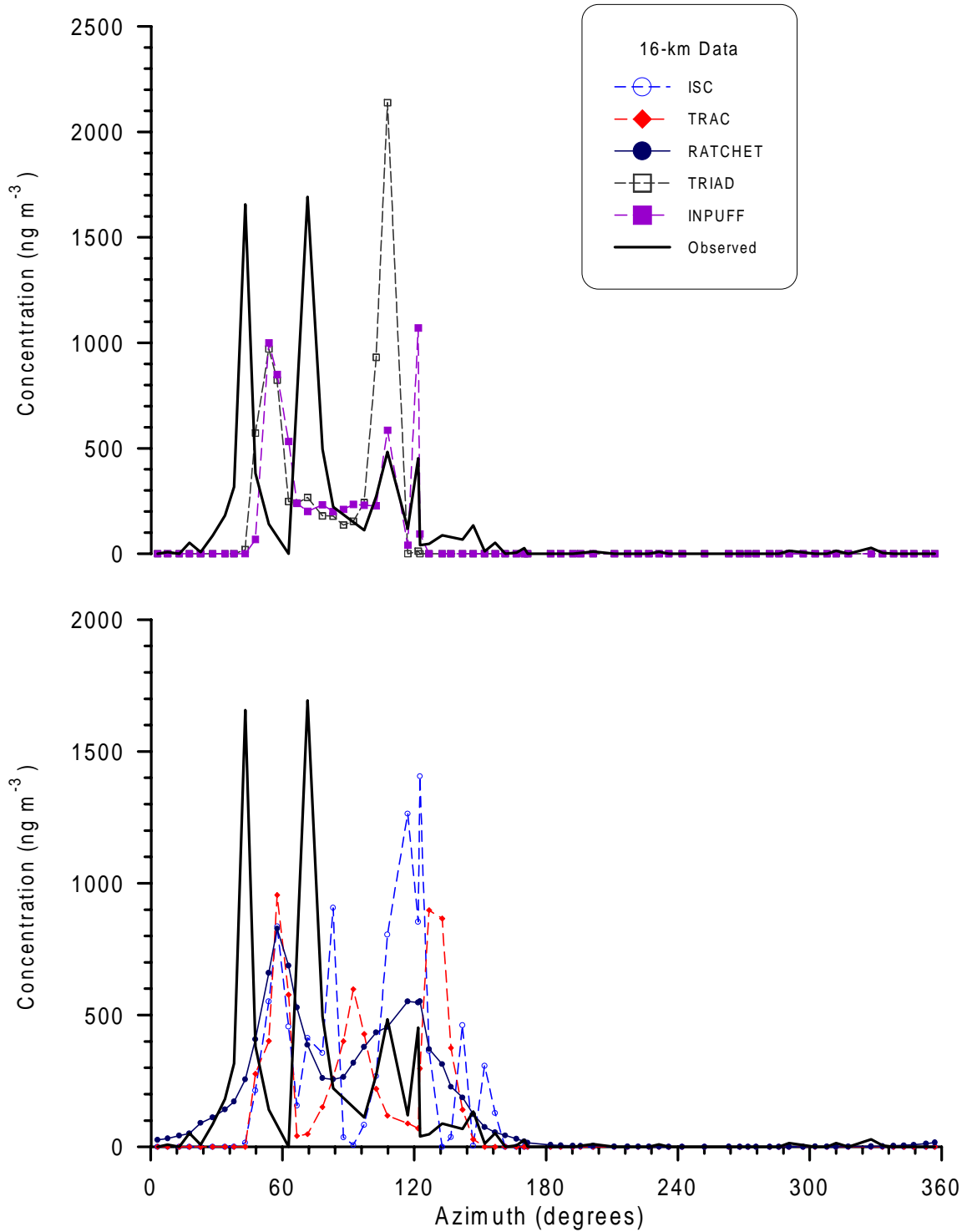
**Figure B-3.** Time averaged concentration for Test 2 conducted under nighttime conditions at the 8-km arc, 02/04/91 20:00:00 – 02/05/91 07:00:00, mountain standard time.



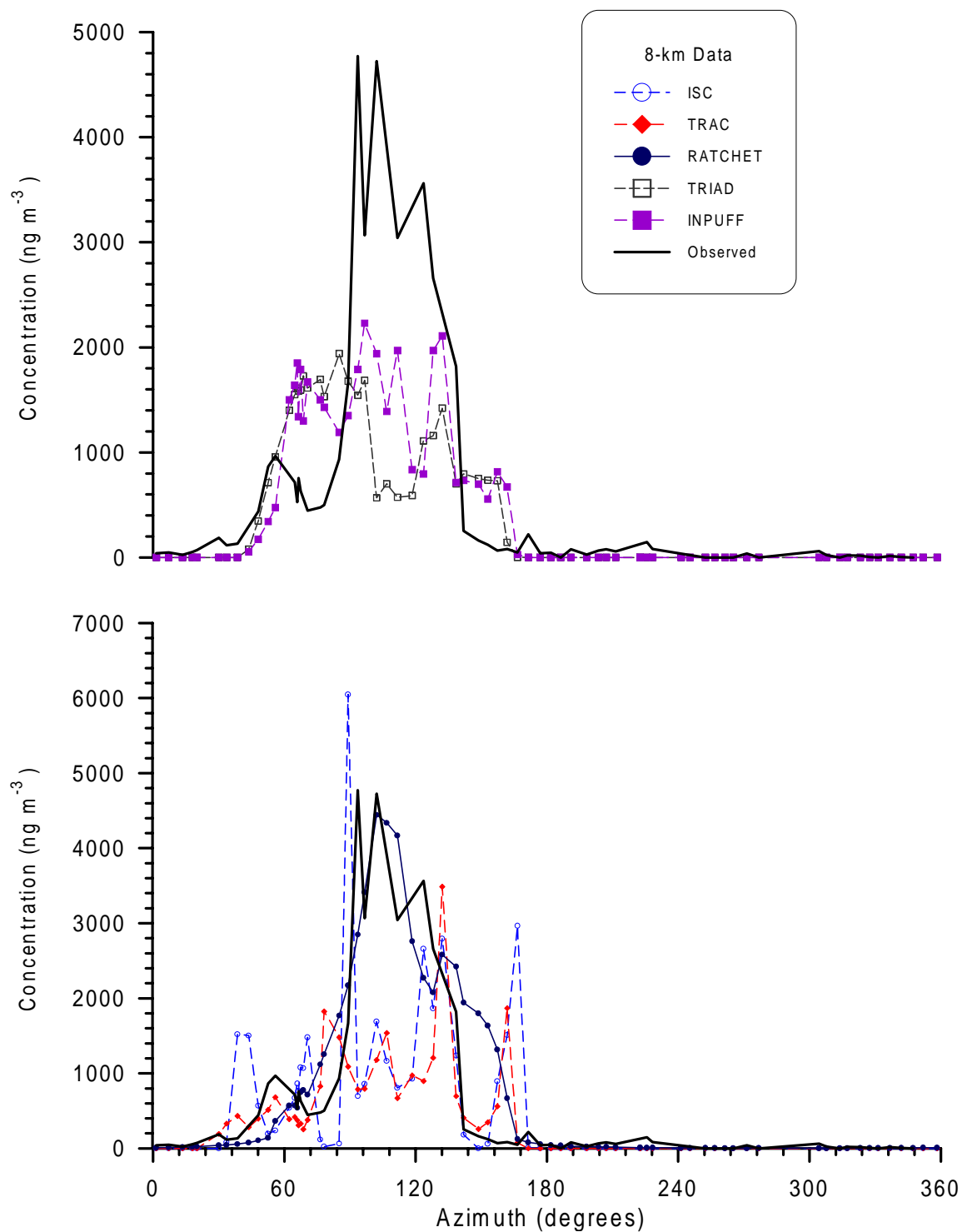
**Figure B-4.** Time averaged concentration for Test 2 conducted under nighttime conditions at the 16-km arc, 02/04/91 20:00:00 – 02/05/91 07:00:00, mountain standard time.



**Figure B-5.** Time averaged concentration for Test 3 conducted under nighttime conditions at the 8-km arc, 02/06/91 20:00:00 – 02/07/91 07:00:00, mountain standard time.

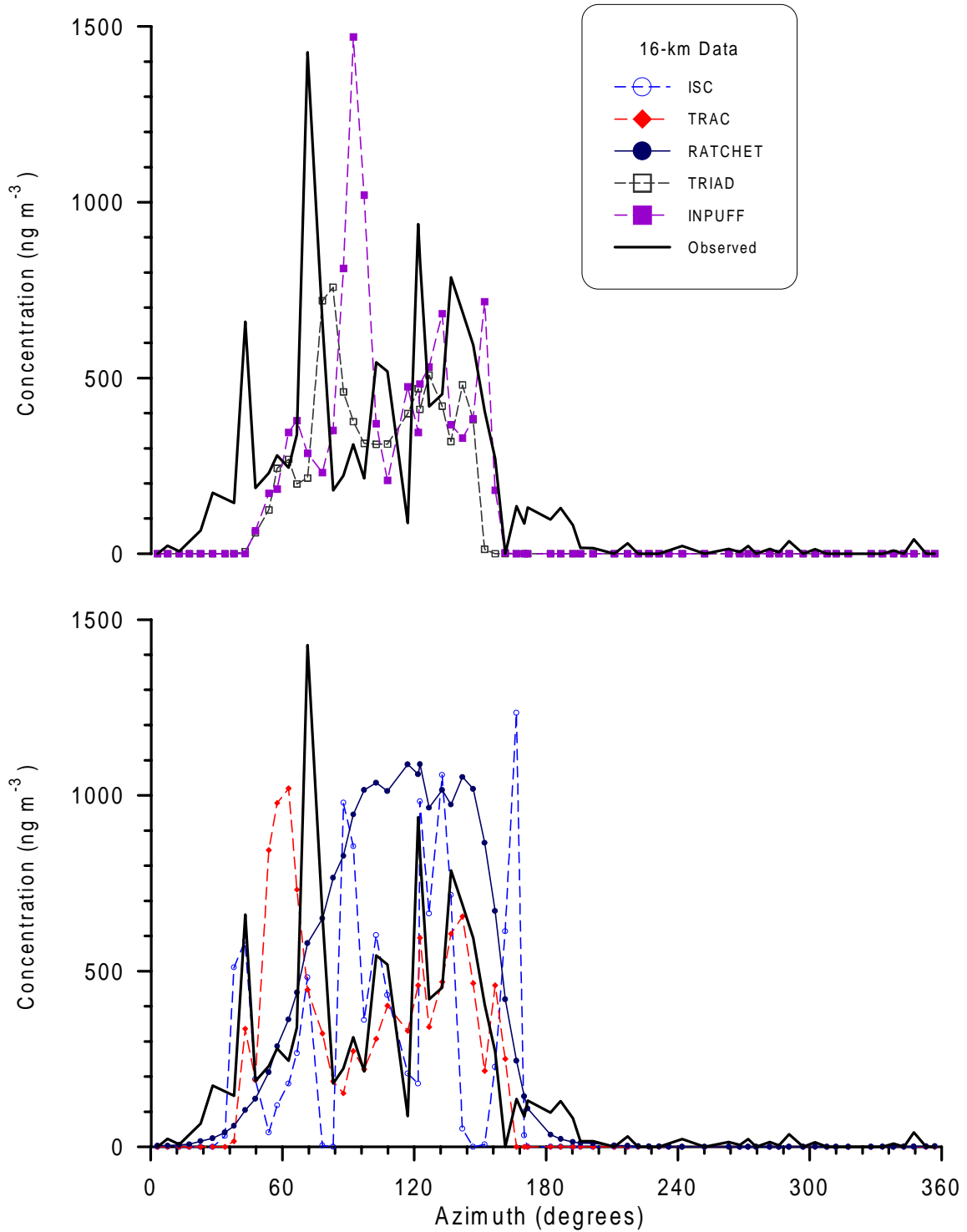


**Figure B-6.** Time averaged concentration for Test 3 conducted under nighttime conditions at the 16-km arc, 02/06/91 20:00:00 – 02/07/91 07:00:00, mountain standard time.

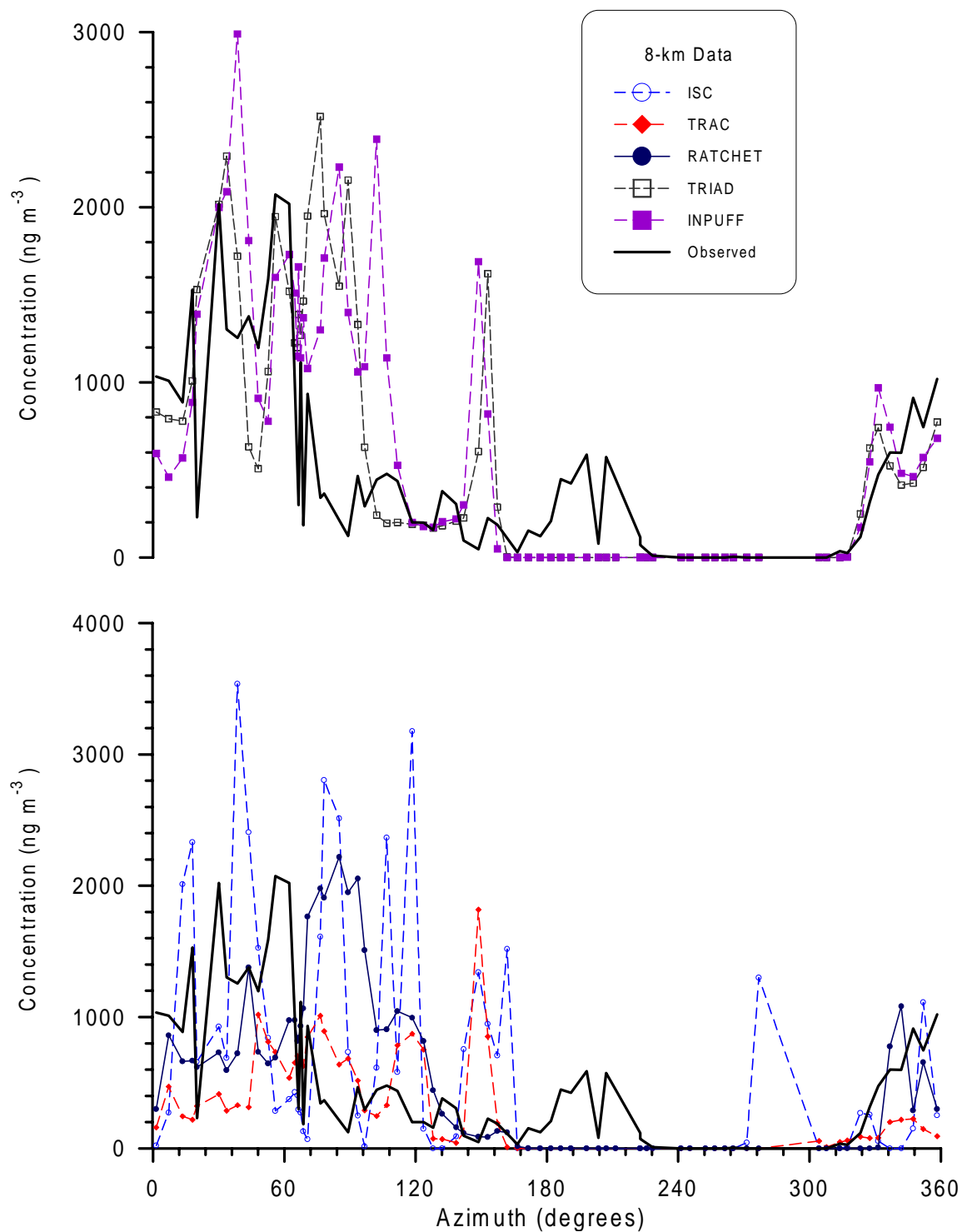


**Figure B-7.** Time averaged concentration for Test 4 conducted under nighttime conditions at the 8-km arc, 02/07/91 20:00:00 – 02/08/91 07:00:00, mountain standard time.

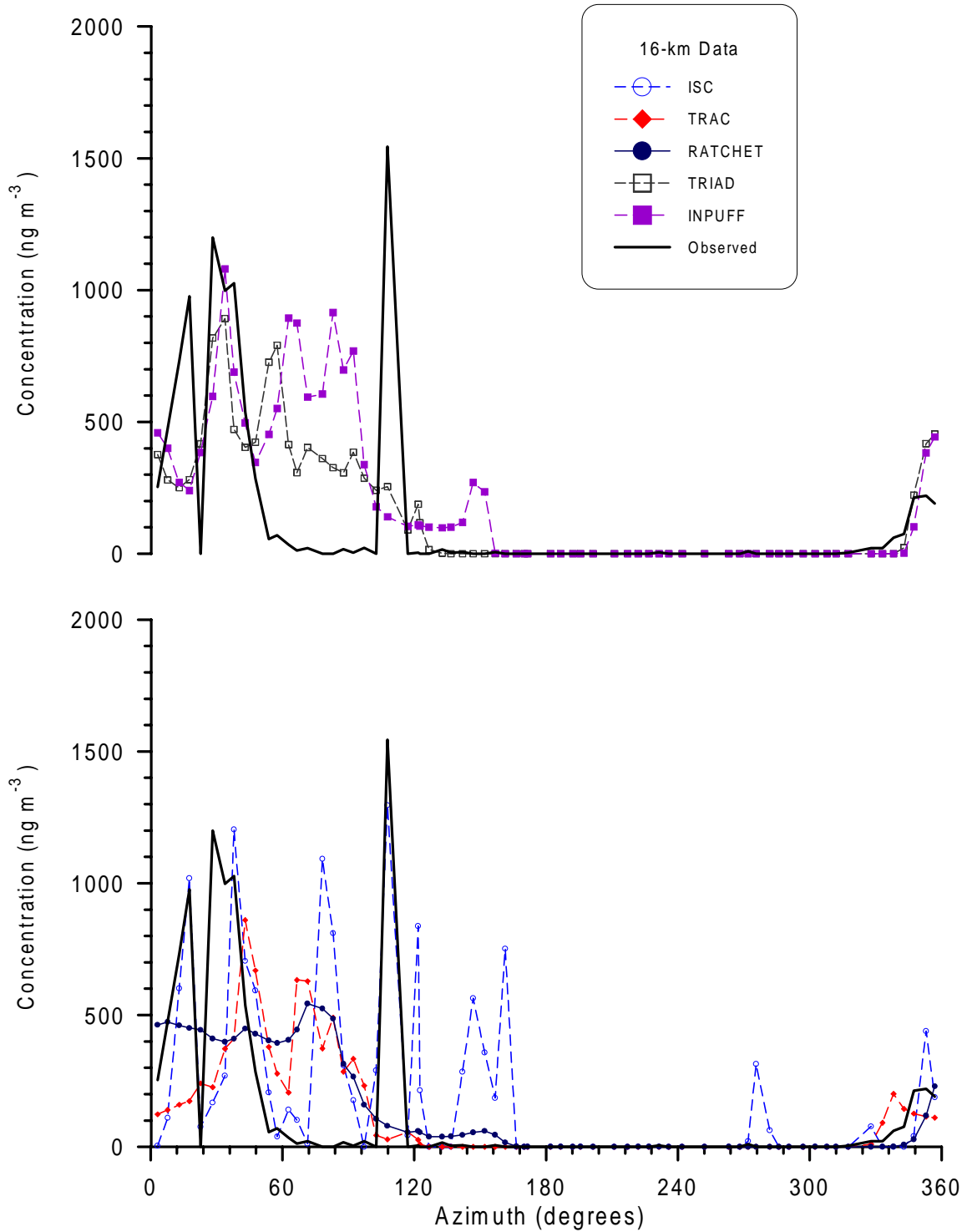




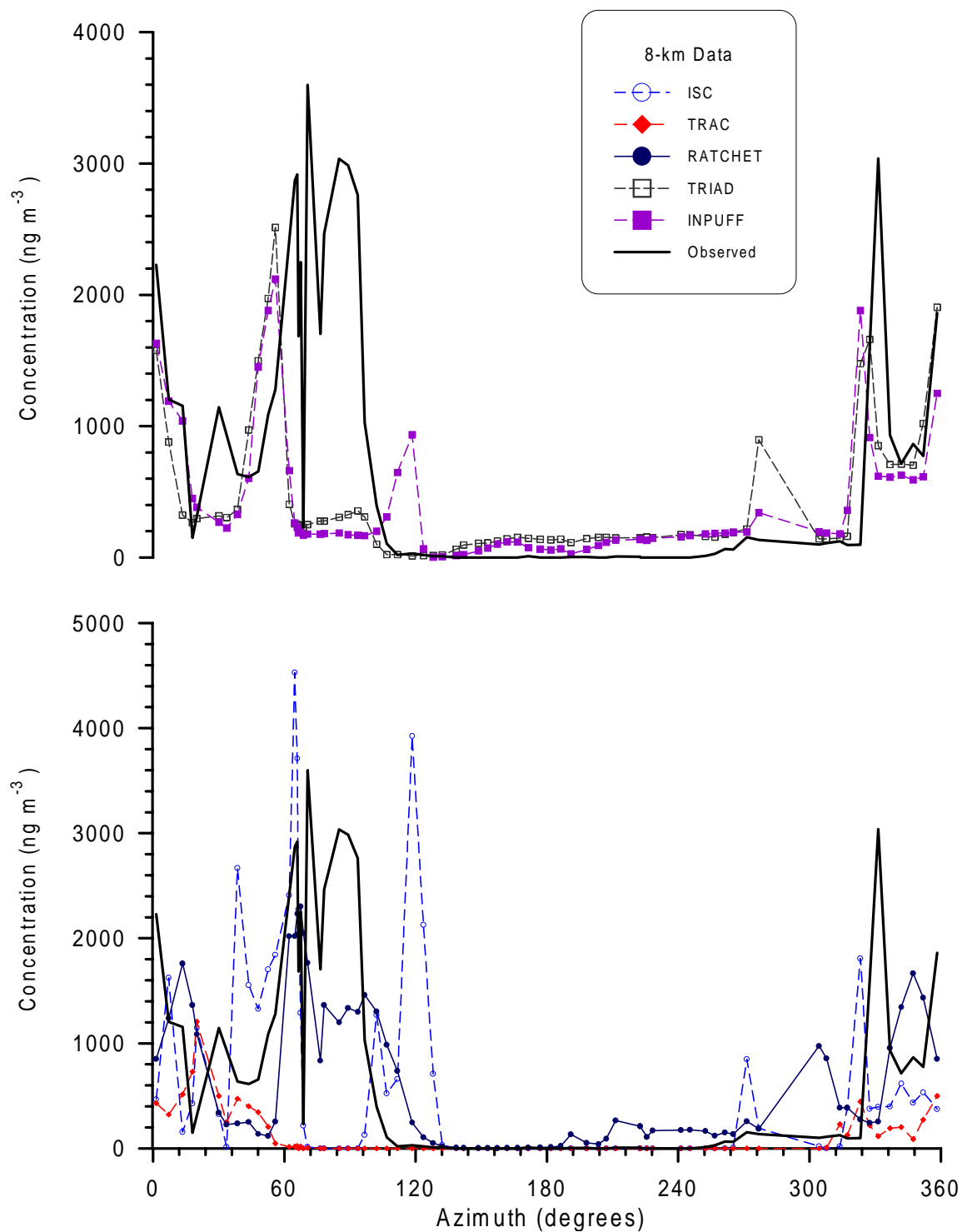
**Figure B-8.** Time averaged concentration for Test 4 conducted under nighttime conditions at the 16-km arc, 02/07/91 20:00:00 – 02/08/91 07:00:00, mountain standard time.



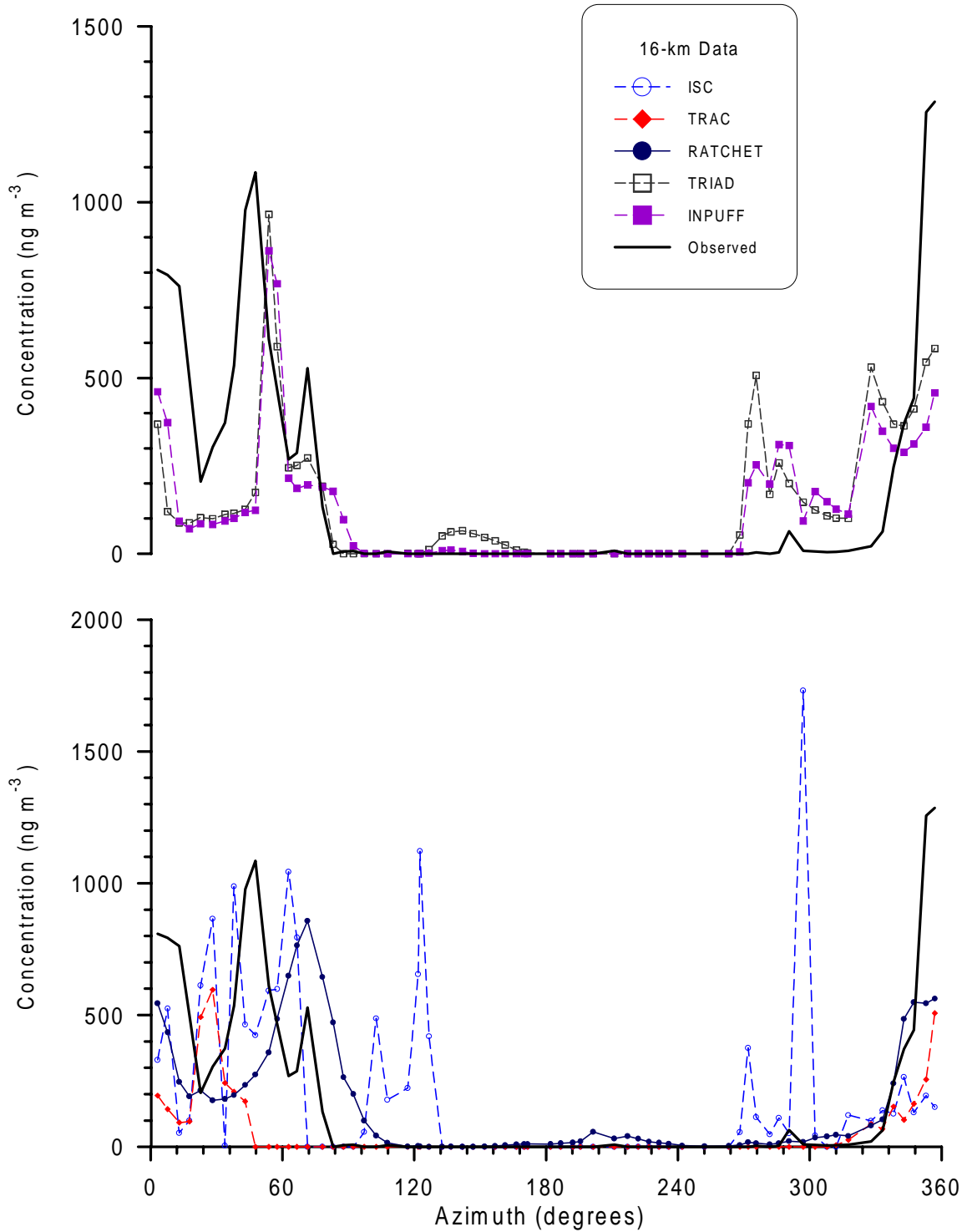
**Figure B-9.** Time averaged concentration for Test 5 conducted under day-night conditions at the 8-km arc, 02/09/91 13:00:00 – 02/09/91 00:00:00, mountain standard time.



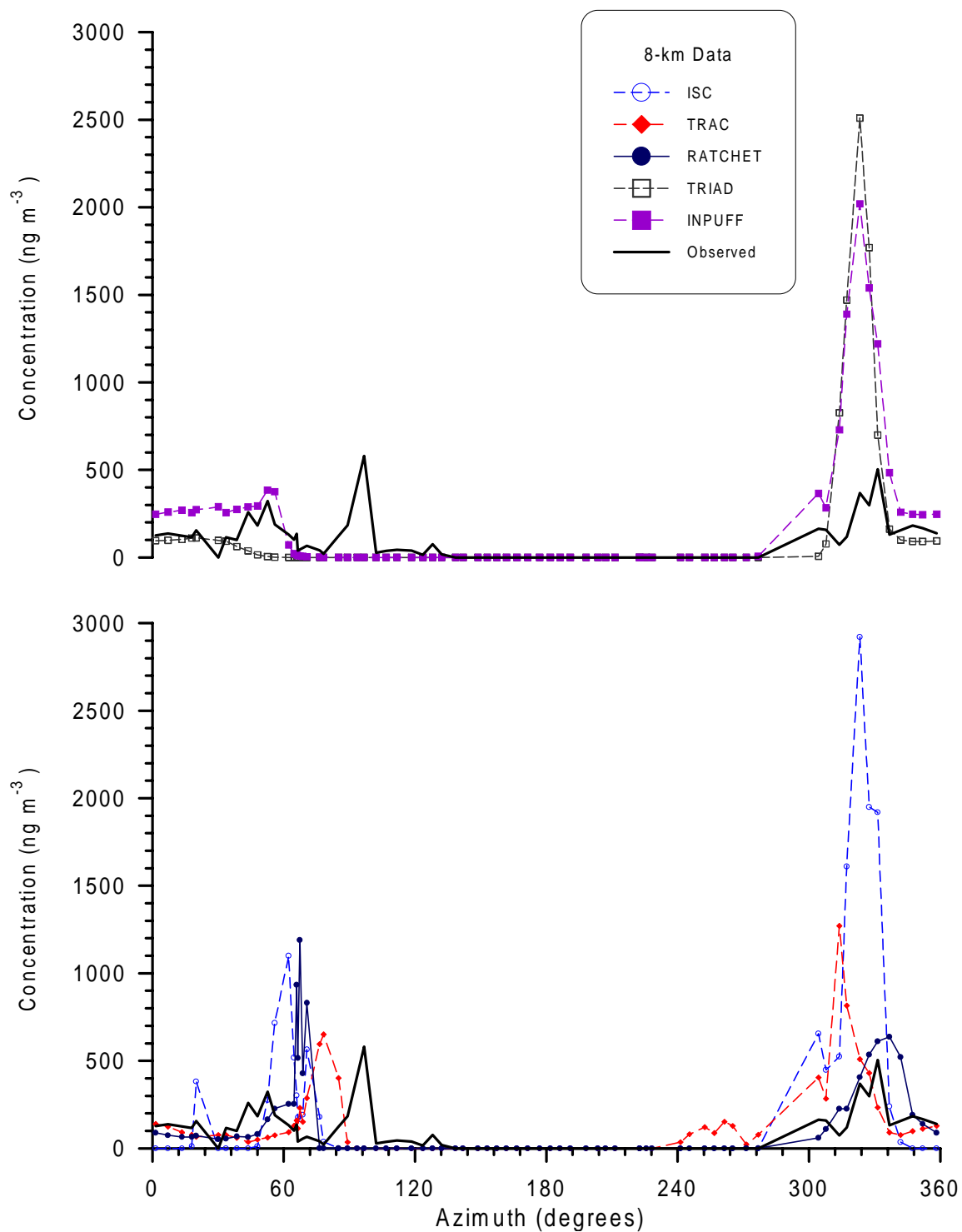
**Figure B-10.** Time averaged concentration for Test 5 conducted under day-night conditions at the 16-km arc, 02/09/91 13:00:00 – 02/09/91 00:00:00, mountain standard time.



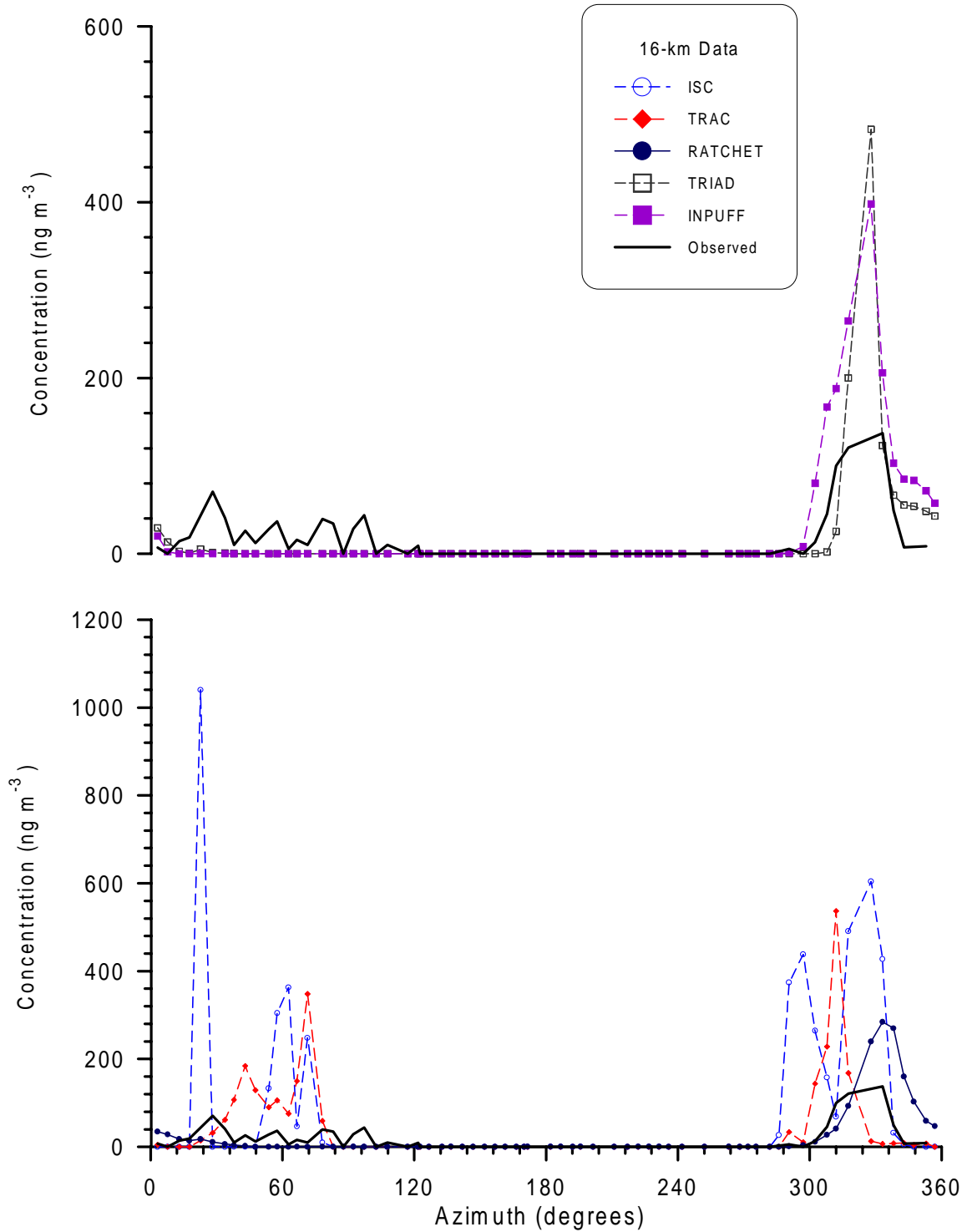
**Figure B-11.** Time averaged concentration for Test 6 conducted under daytime conditions at the 8-km arc, 02/11/91 07:00:00 – 02/11/91 18:00:00, mountain standard time.



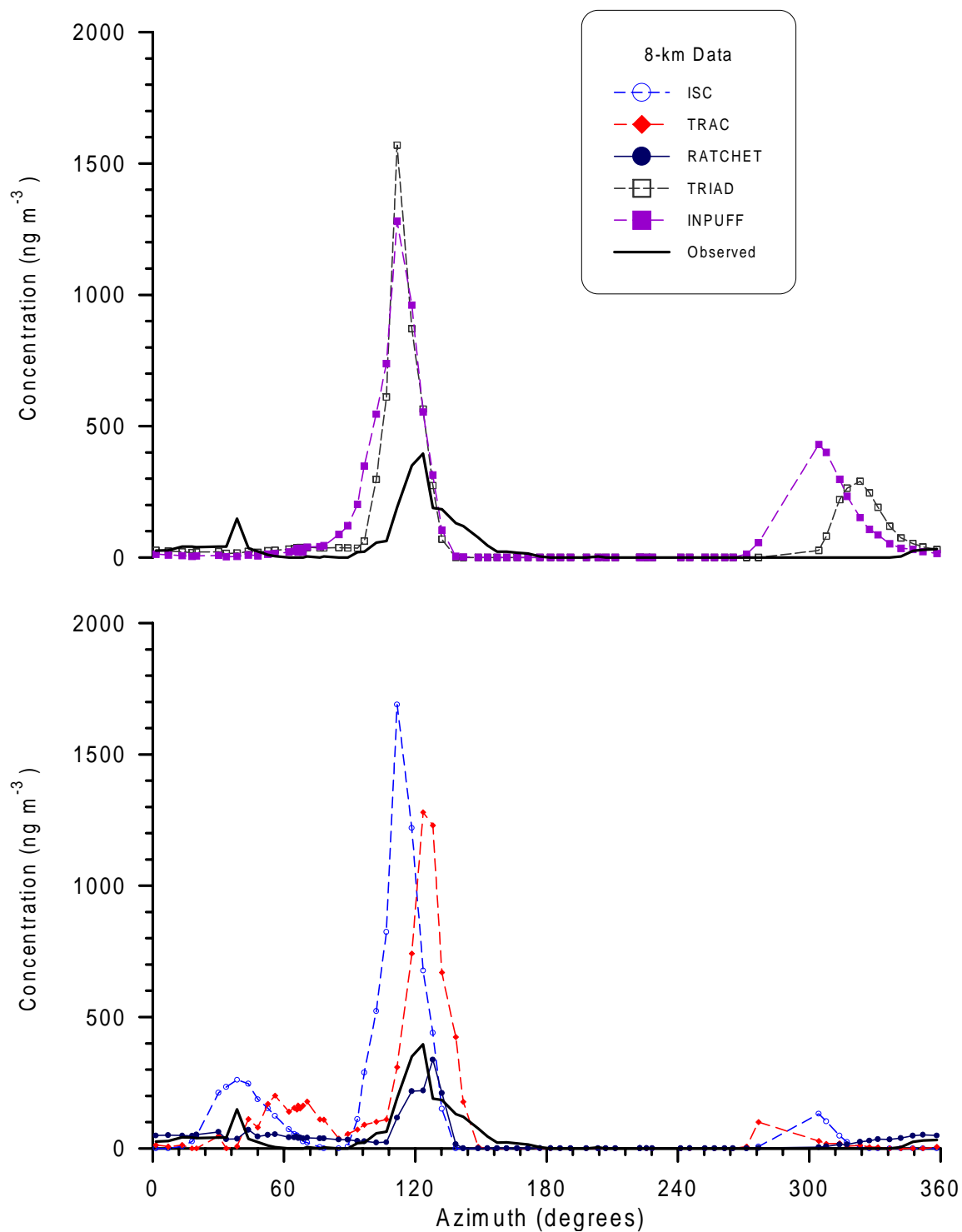
**Figure B-12.** Time averaged concentration for Test 6 conducted under daytime conditions at the 16-km arc, 02/11/91 07:00:00 – 02/11/91 18:00:00, mountain standard time.



**Figure B-13.** Time averaged concentration for Test 7 conducted under daytime conditions at the 8-km arc, 02/12/91 07:00:00 – 02/12/91 18:00:00, mountain standard time.

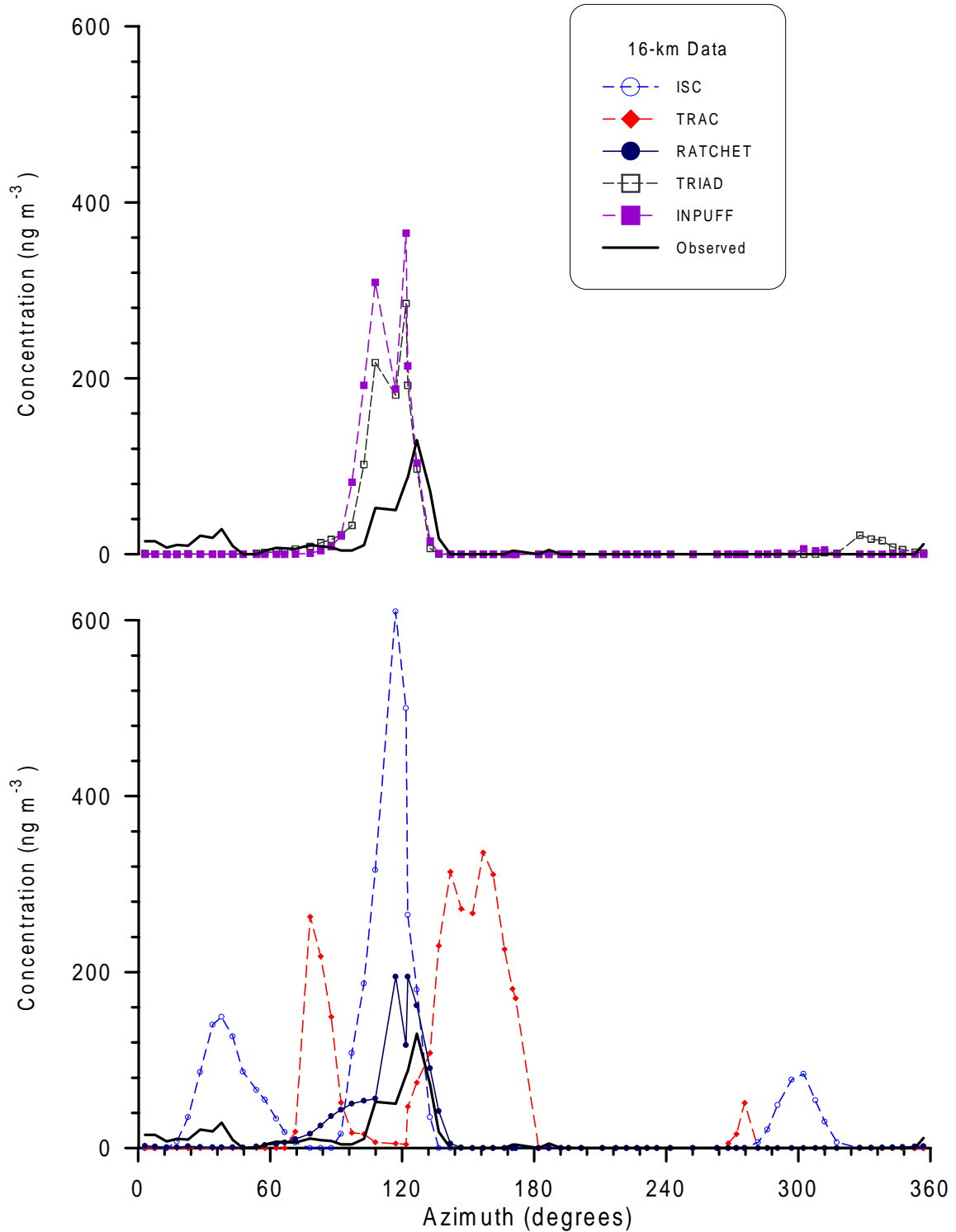


**Figure B-14.** Time averaged concentration for Test 7 conducted under daytime conditions at the 16-km arc, 02/12/91 07:00:00 – 02/12/91 18:00:00, mountain standard time.

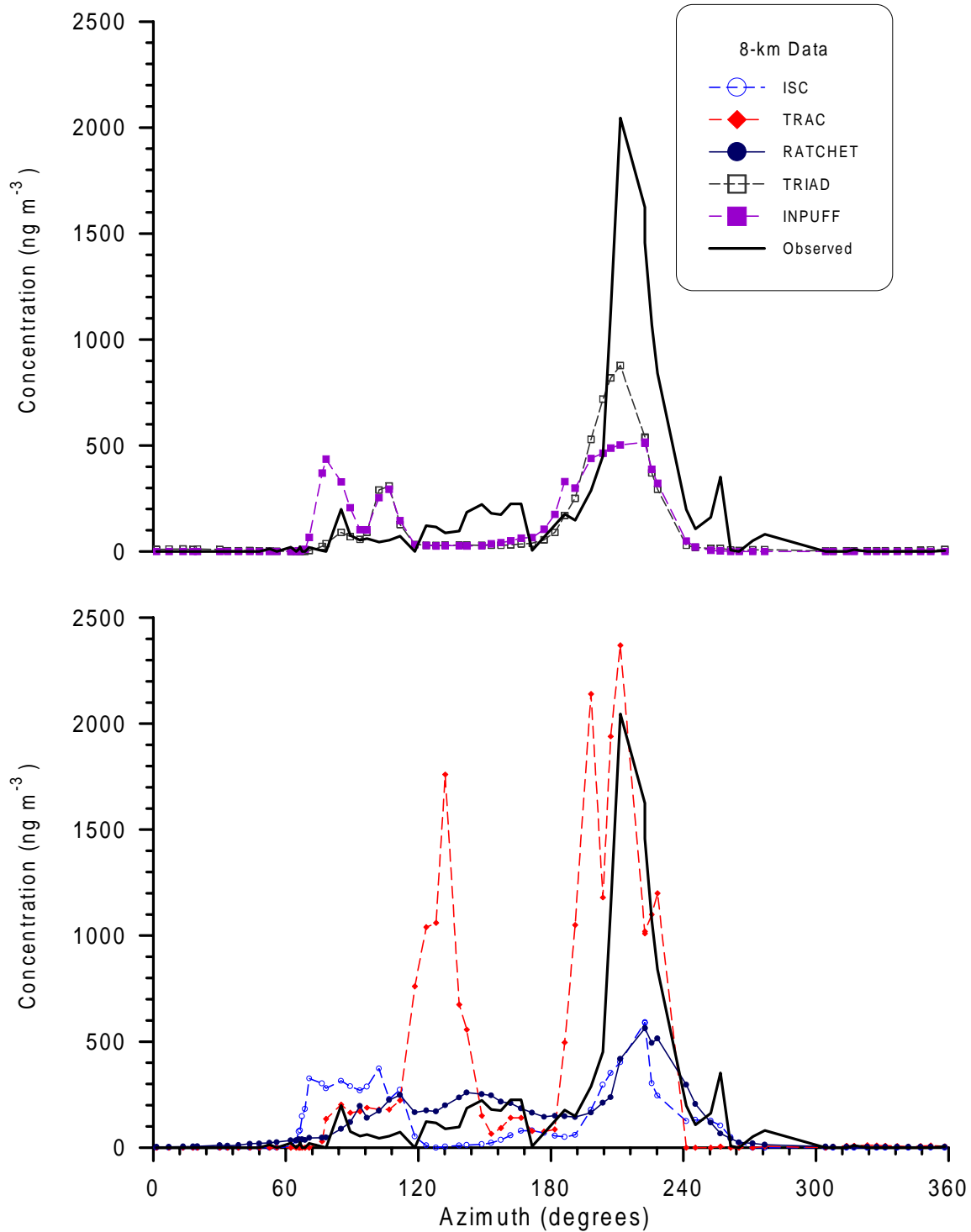


**Figure B-15.** Time averaged concentration for Test 8 conducted under day-night conditions at the 8-km arc, 02/14/91 01:00:00 – 02/14/91 12:00:00, mountain standard time.

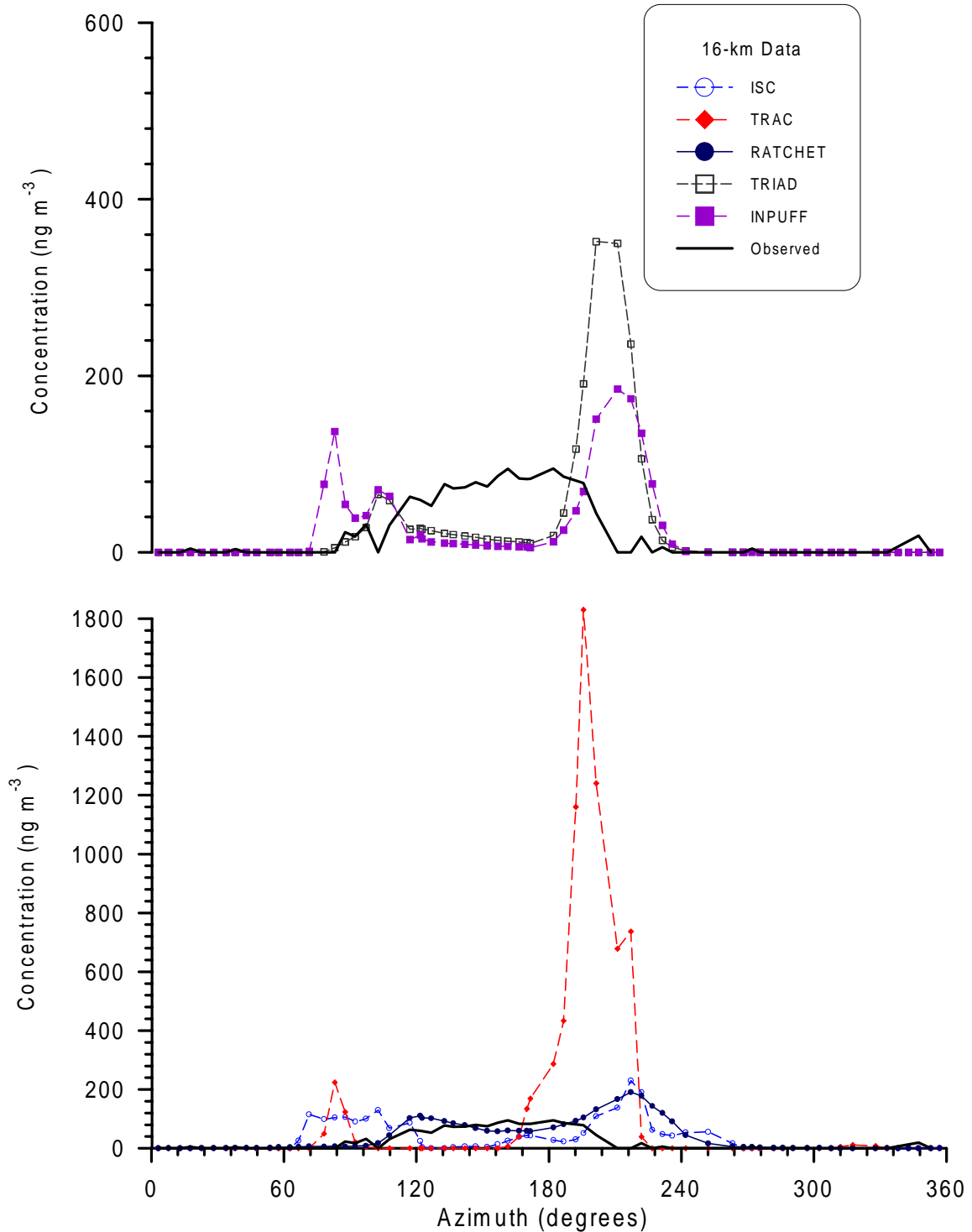




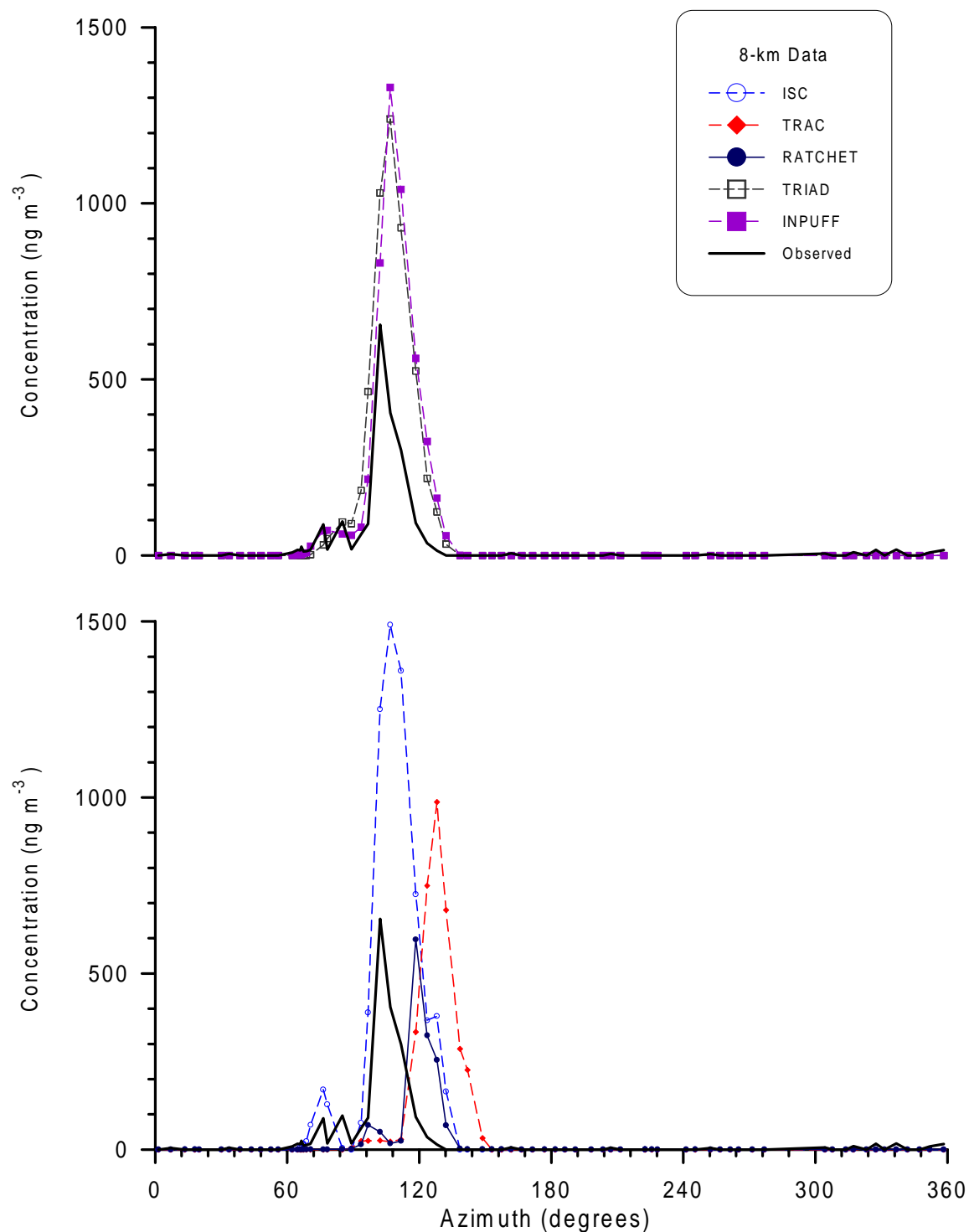
**Figure B-16.** Time averaged concentration for Test 8 conducted under day-night conditions at the 16-km arc, 02/14/91 01:00:00 – 02/14/91 12:00:00, mountain standard time.



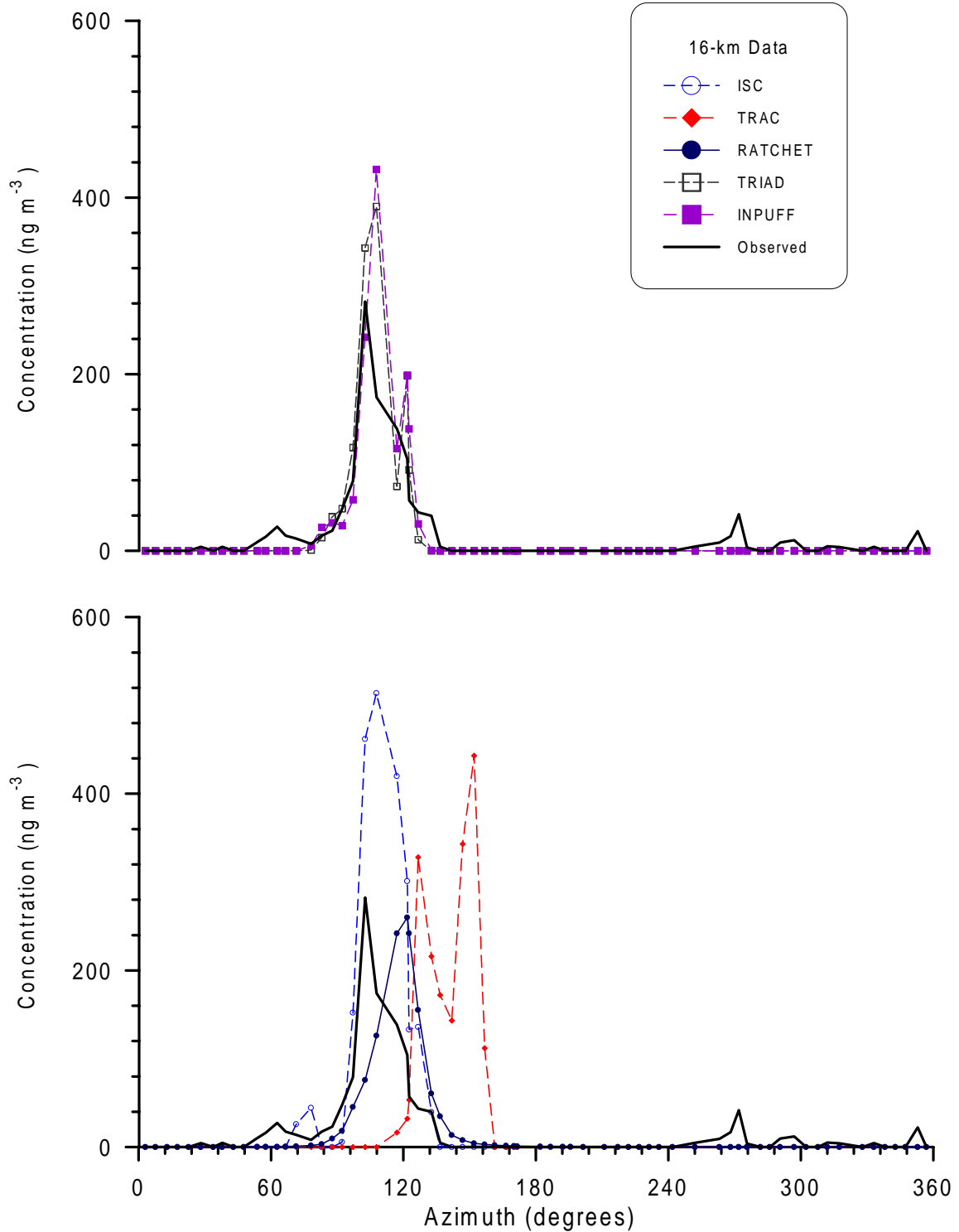
**Figure B-17.** Time averaged concentration for Test 9 conducted under daytime conditions at the 8-km arc, 02/15/91 07:00:00 – 02/15/91 18:00:00, mountain standard time.



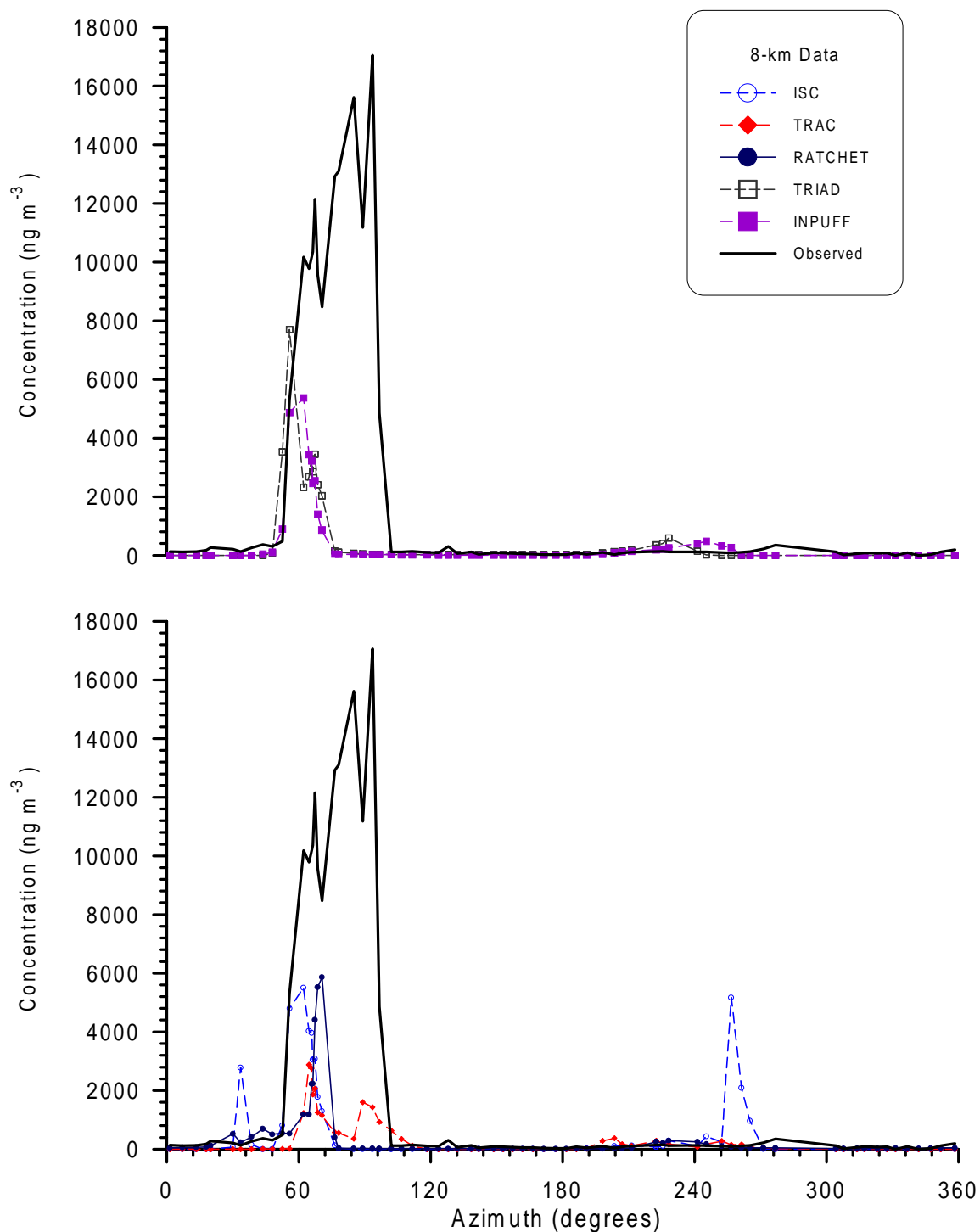
**Figure B-18.** Time averaged concentration for Test 9 conducted under daytime conditions at the 16-km arc, 02/15/91 07:00:00 – 02/15/91 18:00:00, mountain standard time.



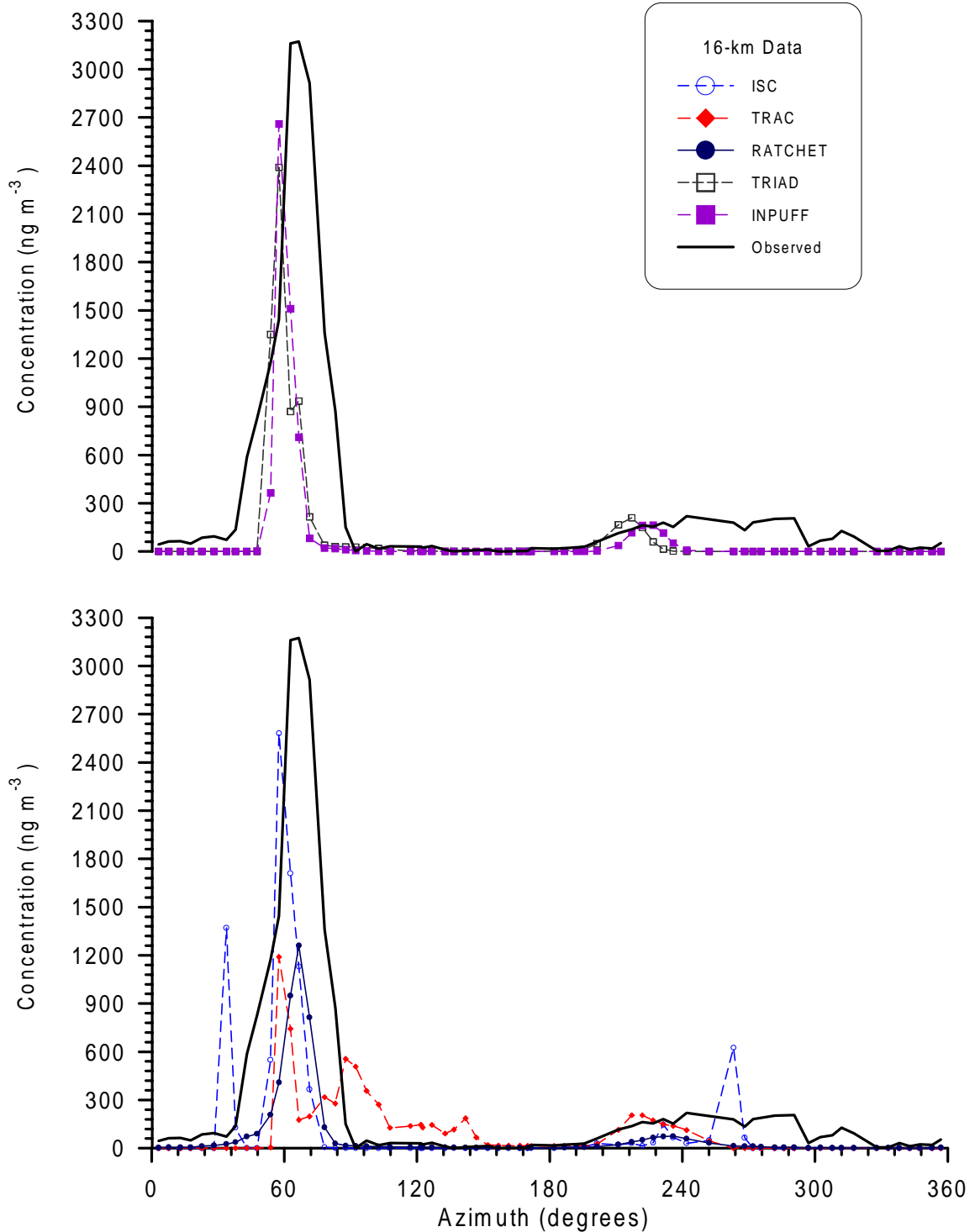
**Figure B-19.** Time averaged concentration for Test 10 conducted under nighttime conditions at the 8-km arc, 02/16/91 20:00:00 – 02/17/91 07:00:00, mountain standard time.



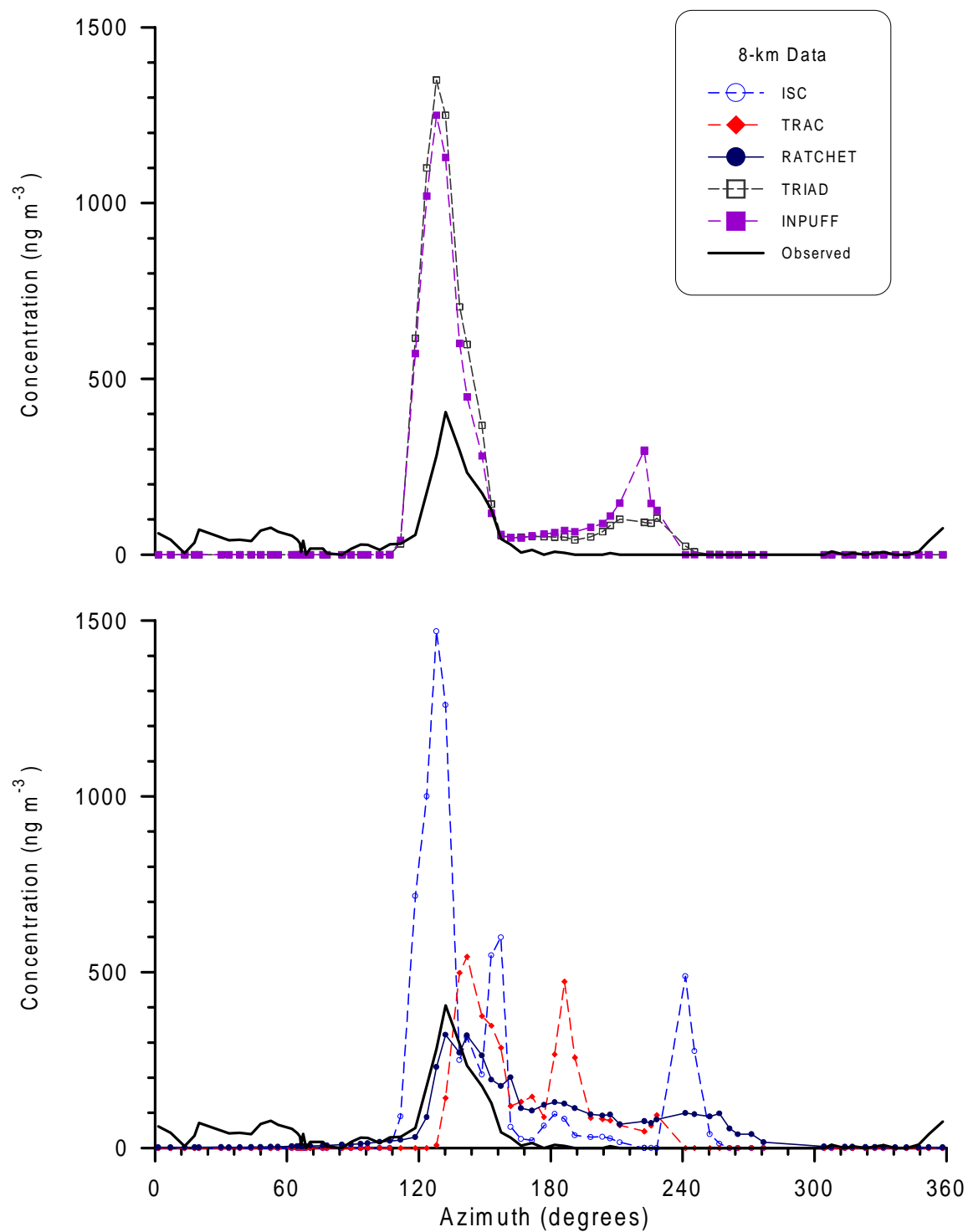
**Figure B-20.** Time averaged concentration for Test 10 conducted under nighttime conditions at the 16-km arc, 02/16/91 20:00:00 – 02/17/91 07:00:00, mountain standard time.



**Figure B-21.** Time averaged concentration for Test 11 conducted under nighttime conditions at the 8-km arc, 02/17/91 20:00:00 – 02/18/91 07:00:00, mountain standard time.

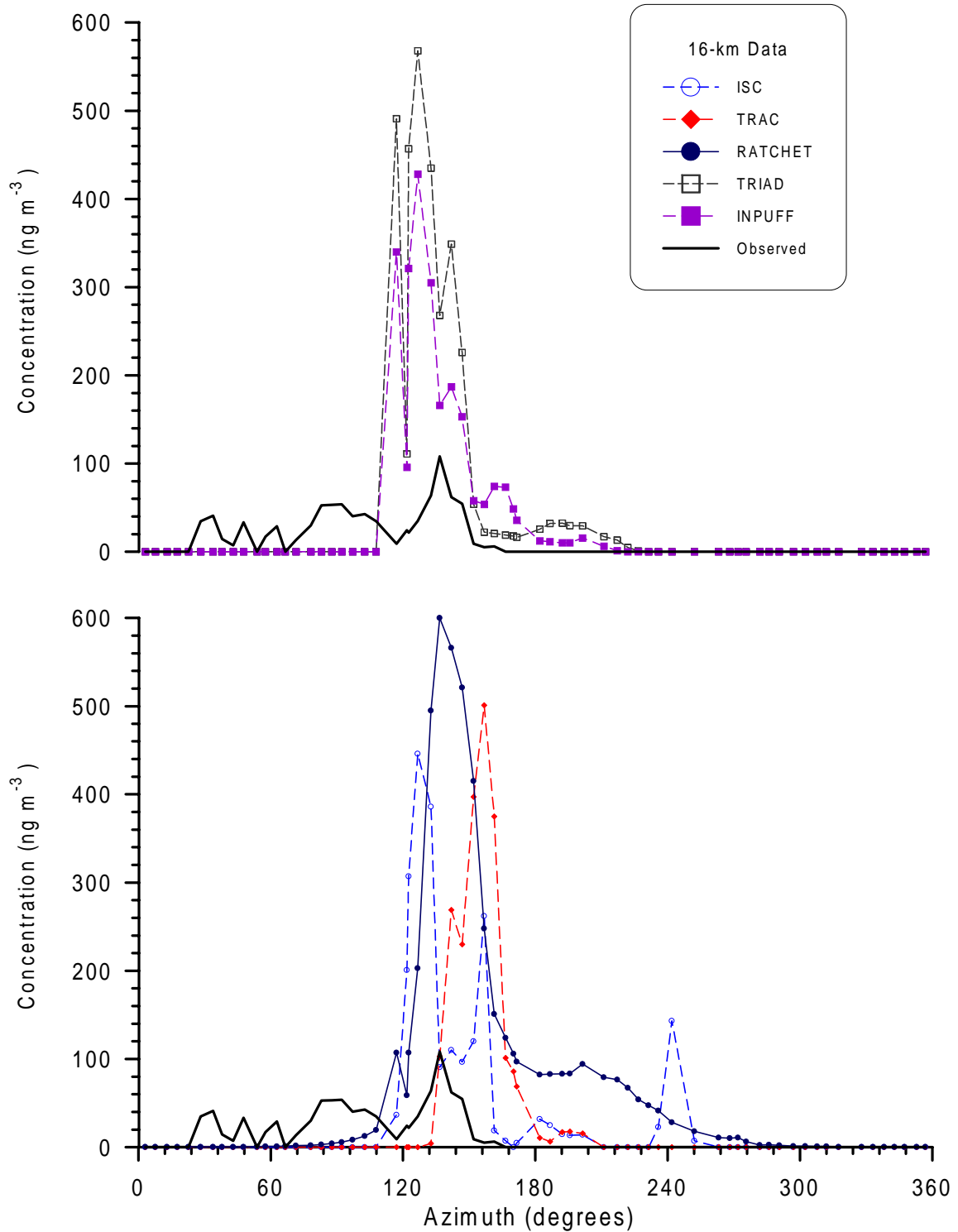


**Figure B-22.** Time averaged concentration for Test 11 conducted under nighttime conditions at the 16-km arc, 02/17/91 20:00:00 – 02/18/91 07:00:00, mountain standard time.



**Figure B-23.** Time averaged concentration for Test 12 conducted under daytime conditions at the 8-km arc, 02/19/91 07:00:00 – 02/19/91 18:00:00, mountain standard time.





**Figure B-24.** Time averaged concentration for Test 12 conducted under daytime conditions at the 16-km arc, 02/19/91 07:00:00 – 02/19/91 18:00:00, mountain standard time.